



(19)

(11) Publication number: **5:**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **54062676**(51) Intl. Cl.: **H01P 5/19**(22) Application date: **23.05.79**

<p>(30) Priority:</p> <p>(43) Date of application publication: 02.12.80</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: FUJITSU LTD</p> <p>(72) Inventor: MURAI SHINICHI</p> <p>(74) Representative:</p>
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(54) BRANCH TYPE HYBRID

(57) Abstract:

PURPOSE: To improve remarkably the precision of a hybrid used at a high frequency by matching impedance at each terminal of the hybrid with the input-output impedance of a branch type hybrid circuit by impedance converting.

CONSTITUTION: In hybrid 20, branch type hybrid circuit 24 is constituted by connecting four strip lines 24a...24d of $\lambda/4$ in a lattice shape. To increase ratio l/W of the width to length of each strip line, the impedance of circuit 24 should be characteristic impedance higher than impedance Z_0 . Here, each impedance Z_0 at terminals (a), (d) and (f) of hybrid 20 is converted 25 and 26 into impedance Z to match with the input-output impedance of circuit 24. Then, selecting width W of each strip line of circuit 24 makes it possible to improve the precision of the hybrid used at a high frequency without sacrificing band-pass characteristics.

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